

Technical Ceramics Day

Thursday, April 12, 2018; 10:30–18:00

Organization: Göller Verlag GmbH – CERAMIC APPLICATIONS, Baden-Baden/DE

Moderation: Karin Scharrer, Editor-in-Chief cfi, CERAMIC APPLICATIONS, Göller Verlag/DE

Keynote: Dr Michael Zins, Fraunhofer IKTS/DE

10:30–11:00 Keynote

- Technical Ceramics – to Fullfil Extreme Challenges from Deap-sea to ISS (Dr Michael Zins, Fraunhofer IKTS/DE)

11:00–12:30 New Materials for Ceramic Components with Enhanced Performance

- Specialty Aluminas for Technical Ceramic Applications (Dr Charles Compson, Almatiss/US)
- Developments for Zirconia Powder as the Preferred Material in Established Industries (Adrian R. Toader, Tosoh/NL+JP)
- Focused on Boron Nitride (Andreas Rettinger, Henze Boron Nitride Products/DE)
- New Materials for Ceramic Components with Enhanced Performance: New Demands – New Feedstock Systems (Dr Karin Hajek, INMATEC Technologies/DE)
- New Range of Controlled Morphology Aluminas for Advanced Ceramics (Lionel Bonneau, Baikowski/FR)

12:45–14:30 Design of Ceramic Components for New Applications

- With Material and Technology Know-How to New Markets (Dr Karl Berroth, FCT Ingenieurkeramik/DE)
- Innovations with Applied Ceramics (Dr Reinhard Lenk, CeramTec/DE)
- New Diamonds/SiC-Composite Materials as Survivalists (Dr Mathias Herrmann, Fraunhofer IKTS/DE)
- Advances in Materials for AM of High-Performance Ceramics (Dr Johannes Homa, LITHOZ/AT)
- CMC – a New Class of Materials for Thermoprocess Technology (Dr Friedrich Raether, Fraunhofer HTL/DE)

15:00–16:30 Ceramic Components for Harsh Working Environment

- Power Distribution – Extreme (Dr Holger Wampers, Lapp Insulators Alumina/DE)
- New High-Temperature Kiln Furniture (Alex Hilgenberg, Rauschert/DE)
- YSZ Materials for Harsh Working Environment Obtained by Emulsion Detonation Synthesis (Javier Montiel and Nuno Vitorino, Innovnano/PT)
- Ceramic Injection Molding: Technical and Commercial Innovation Potential by Enhanced Development of Materials, Processes and Tools (Jens Graf, Kläger/DE)
- Requirements Engineered into Practice: Ceramic Fibre Composites for High-Temperature Fixtures (Dr Rolf Terjung, Graphite Materials/DE)

16:30–17:40 Technology Enhancement for New Applications

- Automatic Line for AM Manufacturing (Richard Gaignon, 3DCeram/FR)
- Fast-Tracking CIM Products (Senad Hasanovic, Ceramaret/CH)
- Numerical Simulation of the Sintering Process (Dr Anke Kaletsch, IAPK/DE)
- HIP Equipment for the Densification of Ceramic and Metallic Powder Components (Marc Knauff, CREMER Thermoprozessanlagen/DE)

17:40–18:00 Best Component Award Technical Ceramics
